

**ADHESION OF HEPARIN-CONTAINING COATINGS
TO BLOOD-CONTACTING SURFACES
OF MEDICAL DEVICES**

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ABSTRACT OF THE DISCLOSURE

- 10 The present invention relates to coatings of heparin derivatives on blood-
contacting surfaces of medical devices, in particular on the surfaces of endoluminal
stents, wherein the coatings have improved adhesion in comparison with
conventional coatings heparin derivatives. Multiple component coatings are
described in which compounds having therapeutic benefit are coated jointly with
15 substances promoting adhesion. Multiple layers of coating are described including
adhesion-enhancing primer layers. Surface pre-treatments enhance adhesion in
some embodiments, including surface roughening. Baking of heparin-containing
compounds following coating also enhances adhesion in some embodiments.